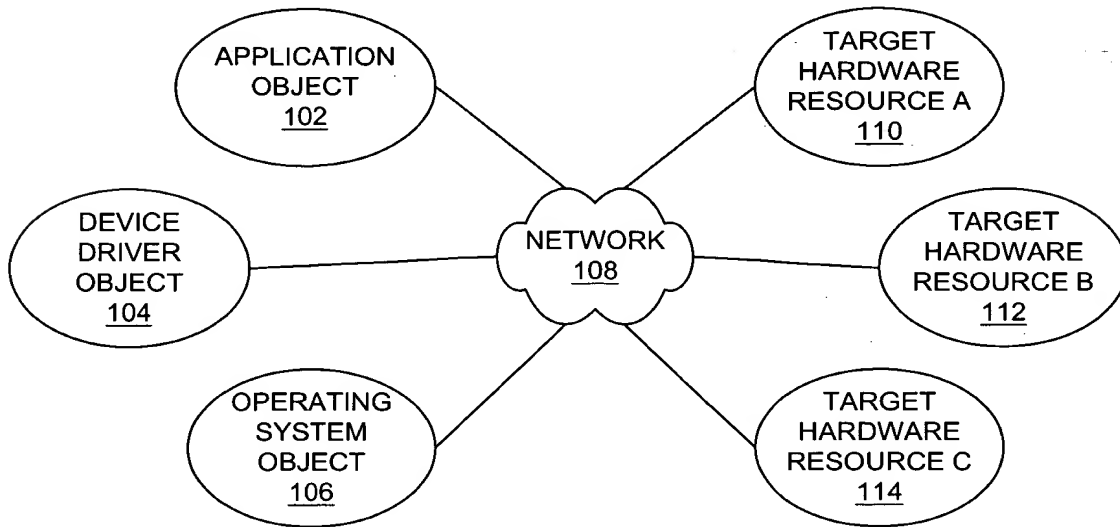
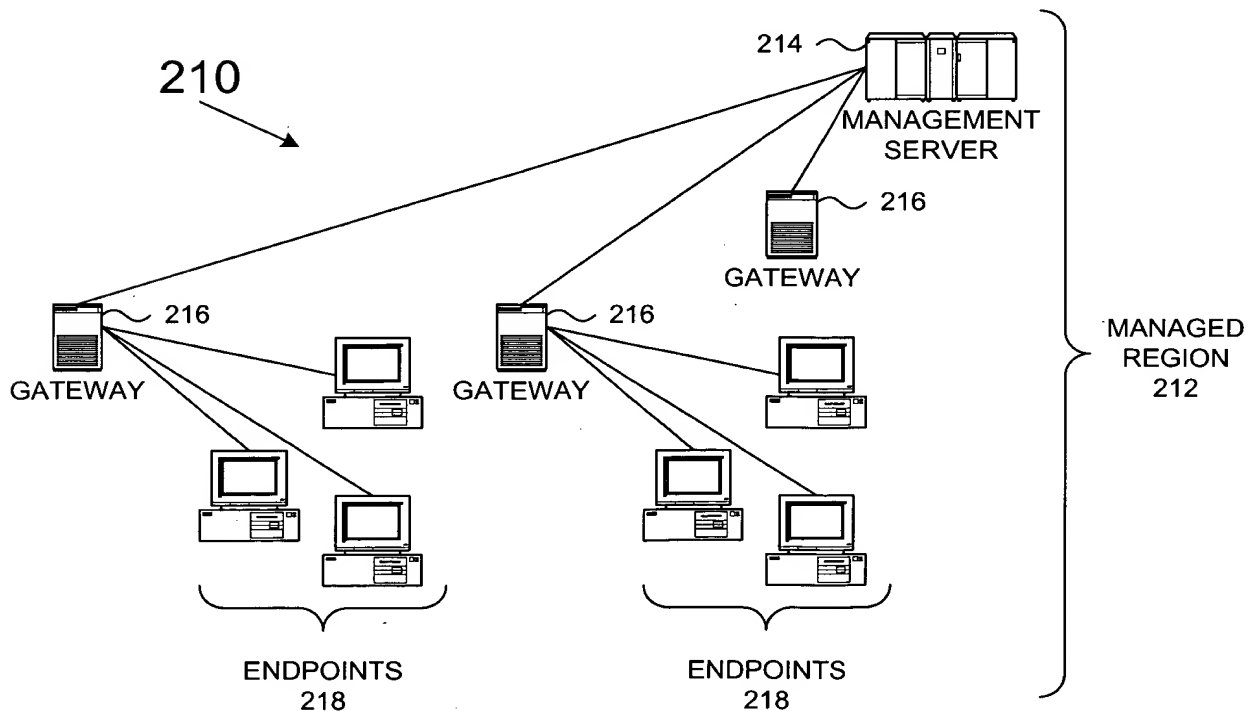


1/17



*FIG. 1*  
(PRIOR ART)



*FIG. 2A*

2/17

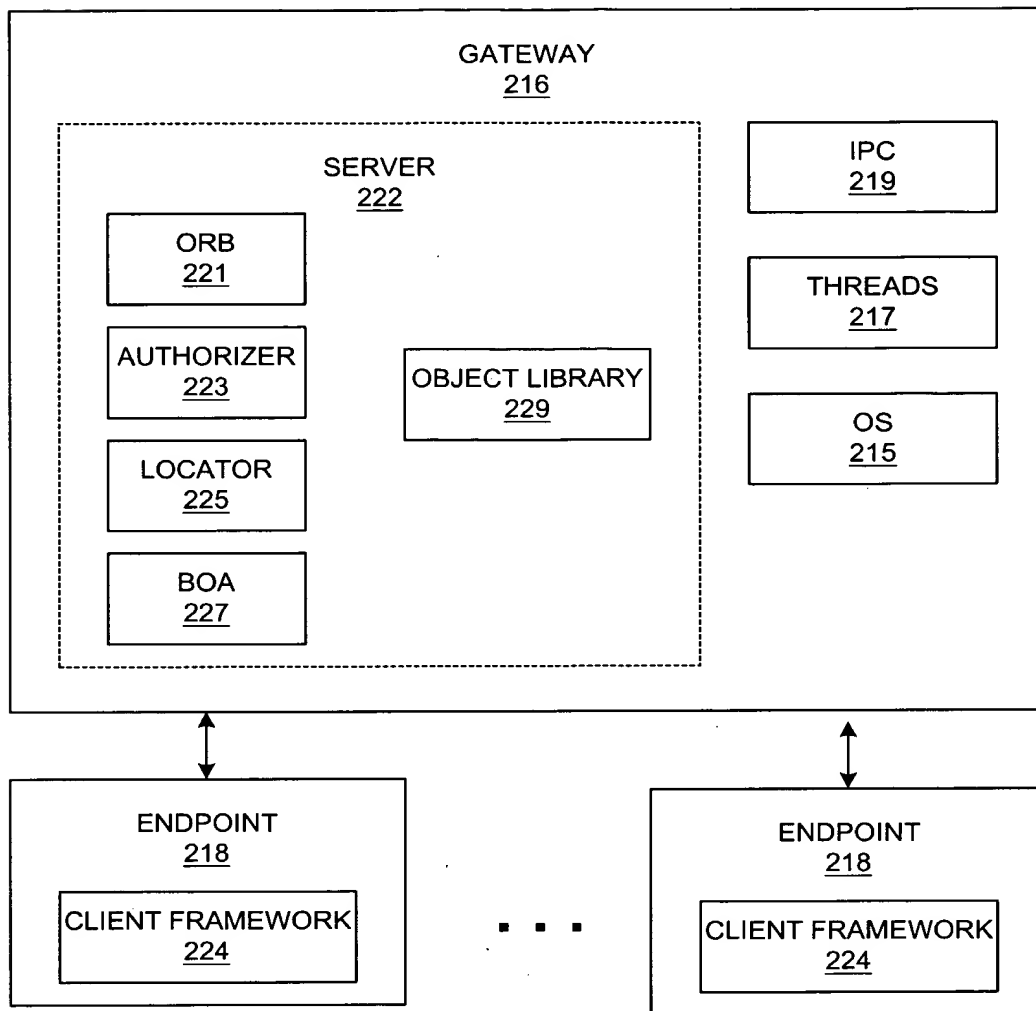


FIG. 2B

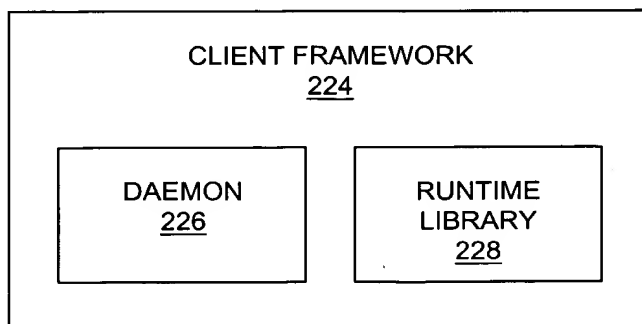


FIG. 2C

3/17

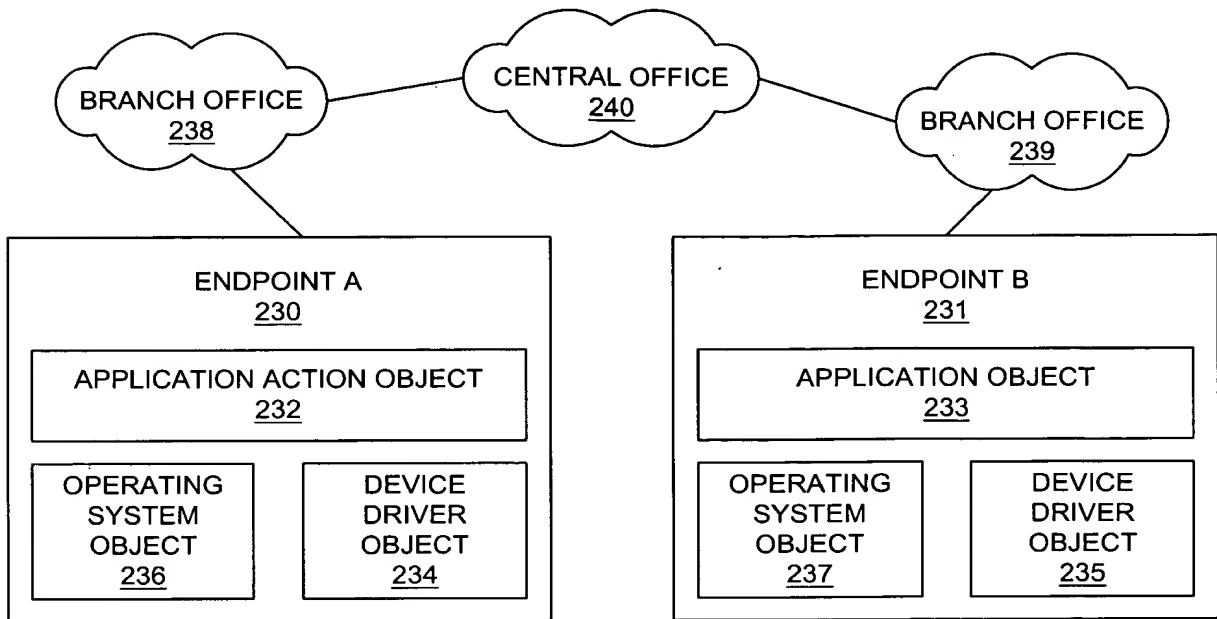


FIG. 2D

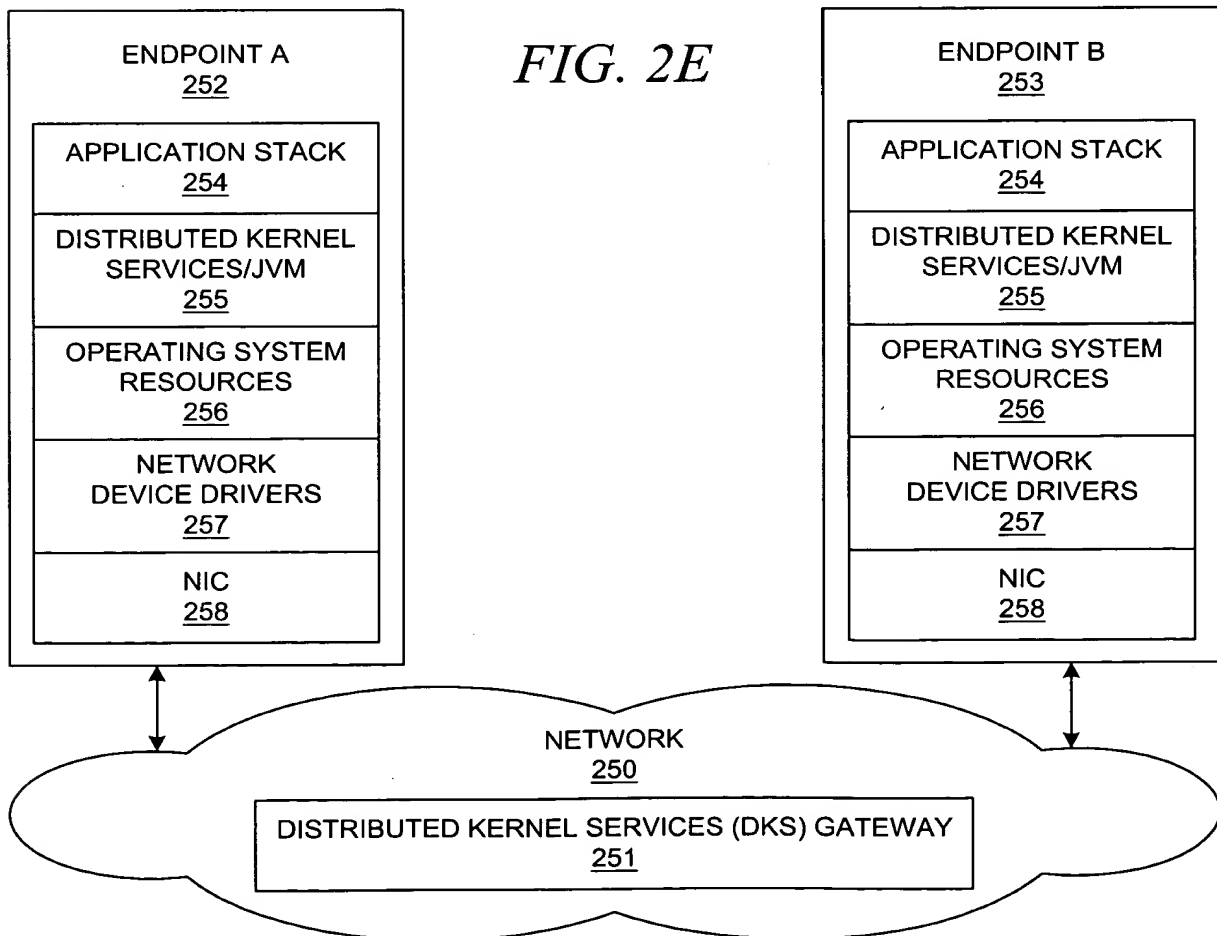


FIG. 2E

4/17

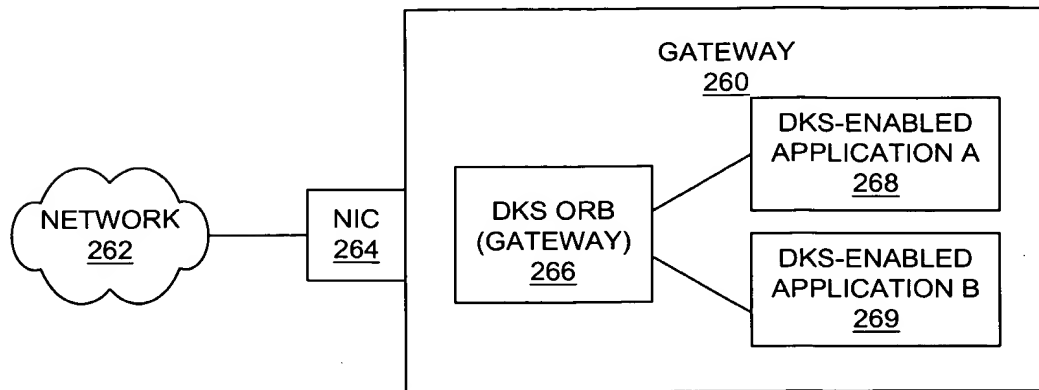


FIG. 2F

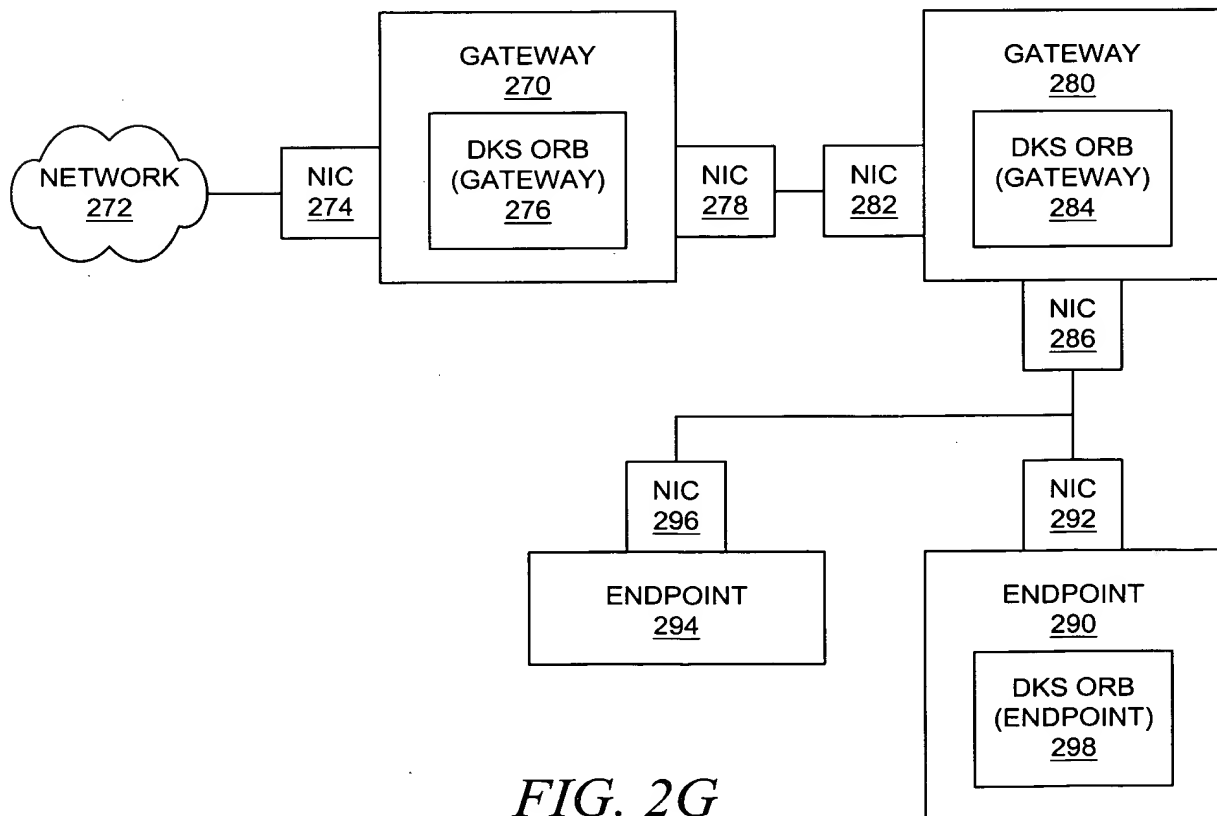


FIG. 2G

5/17

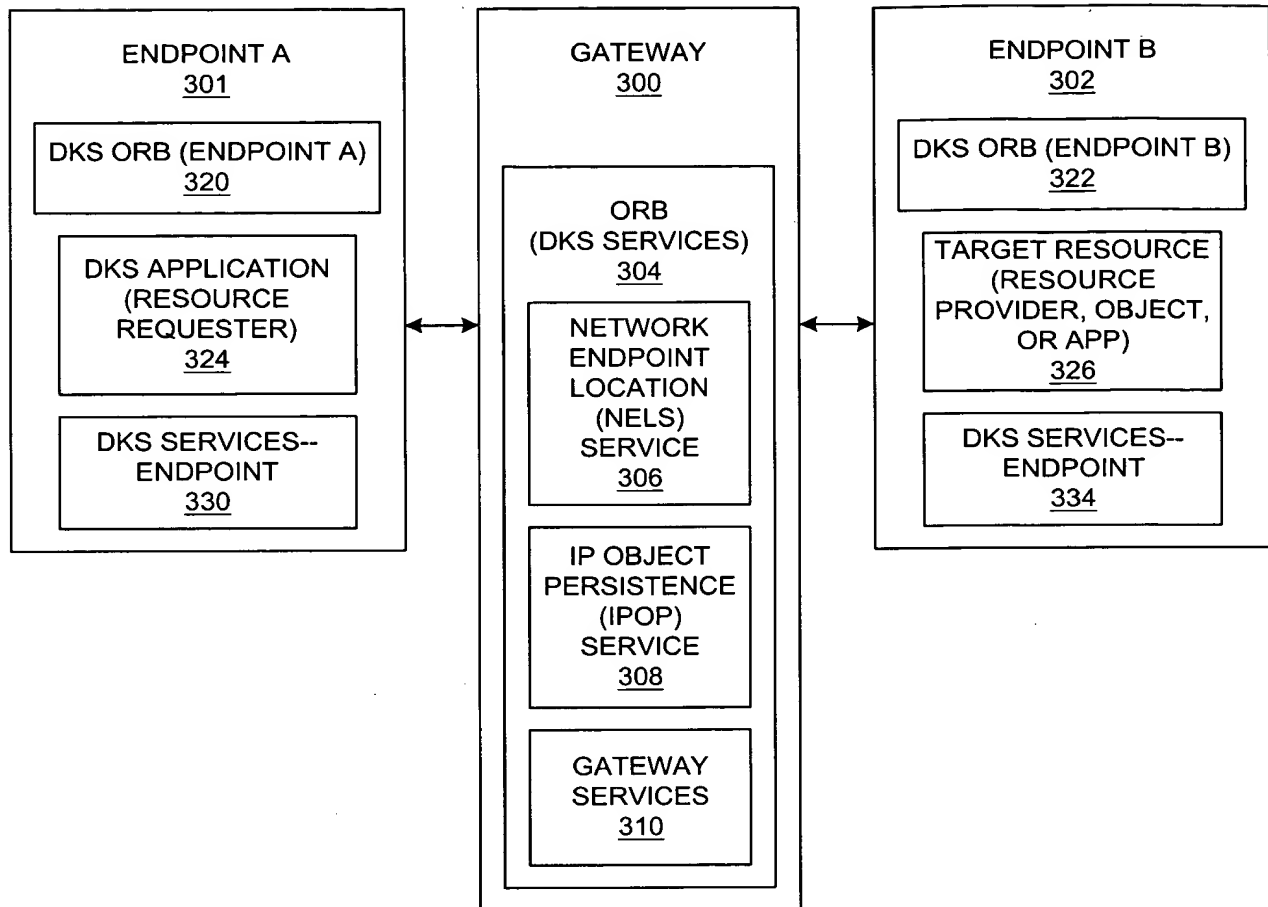


FIG. 3

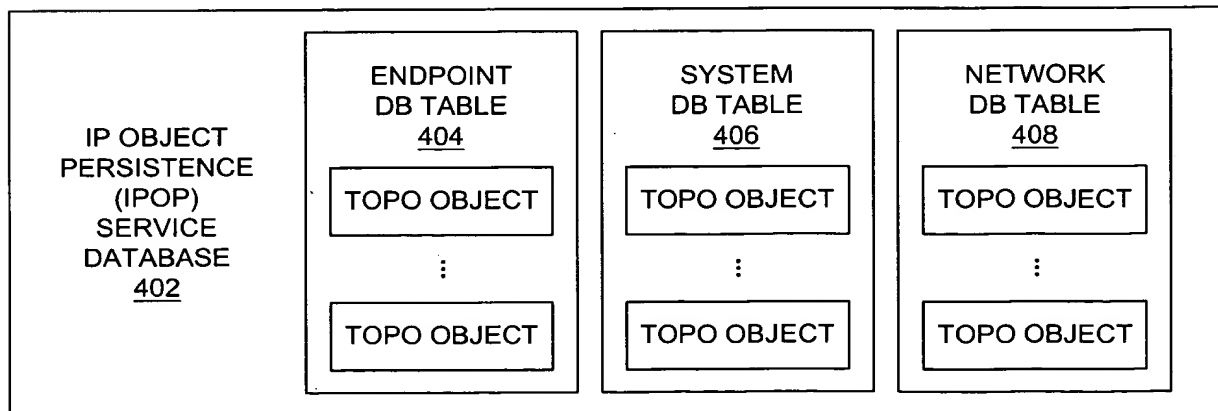
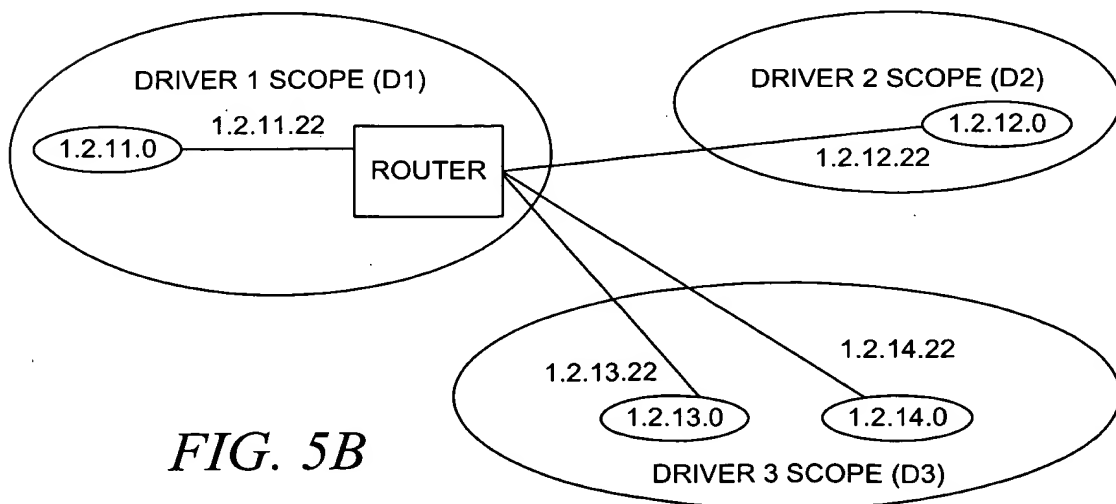
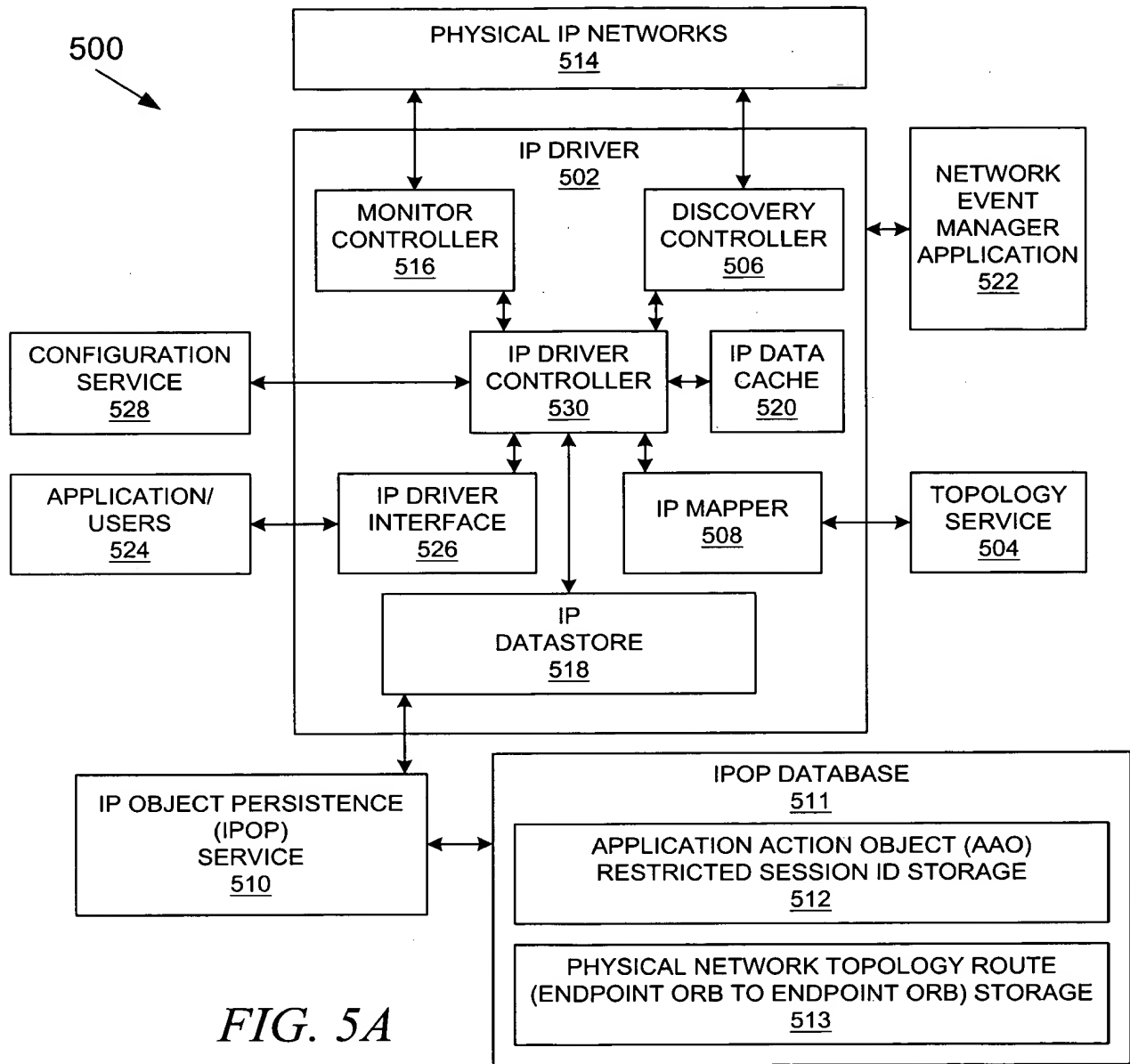


FIG. 4

6/17



7/17

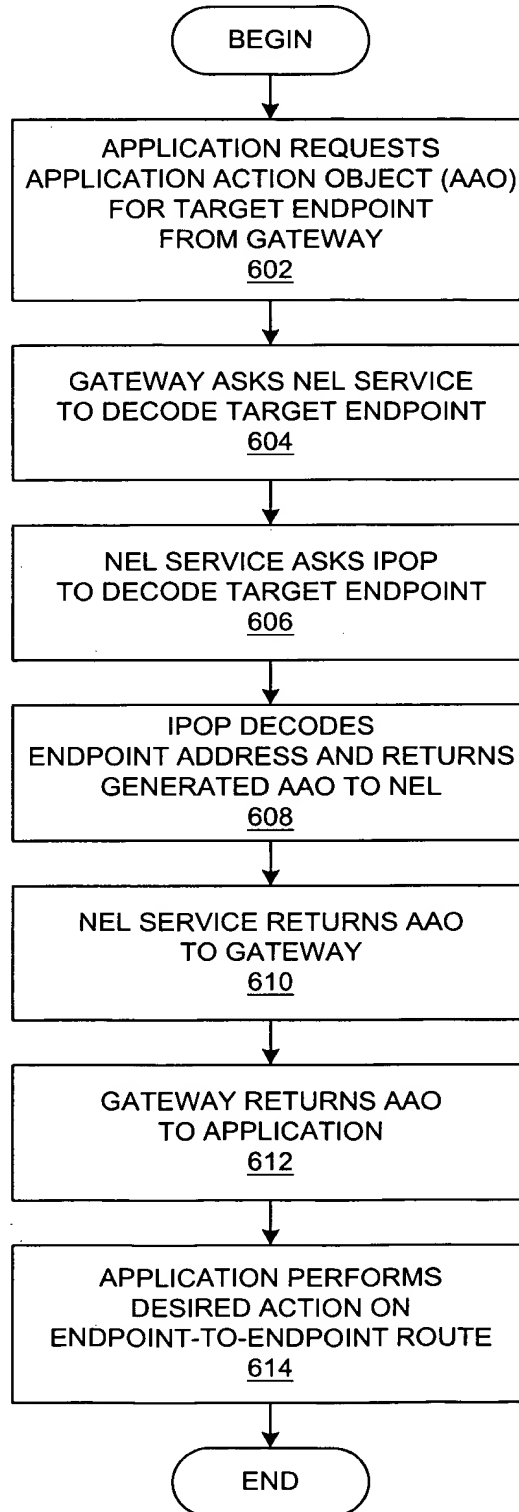


FIG. 6A

8/17

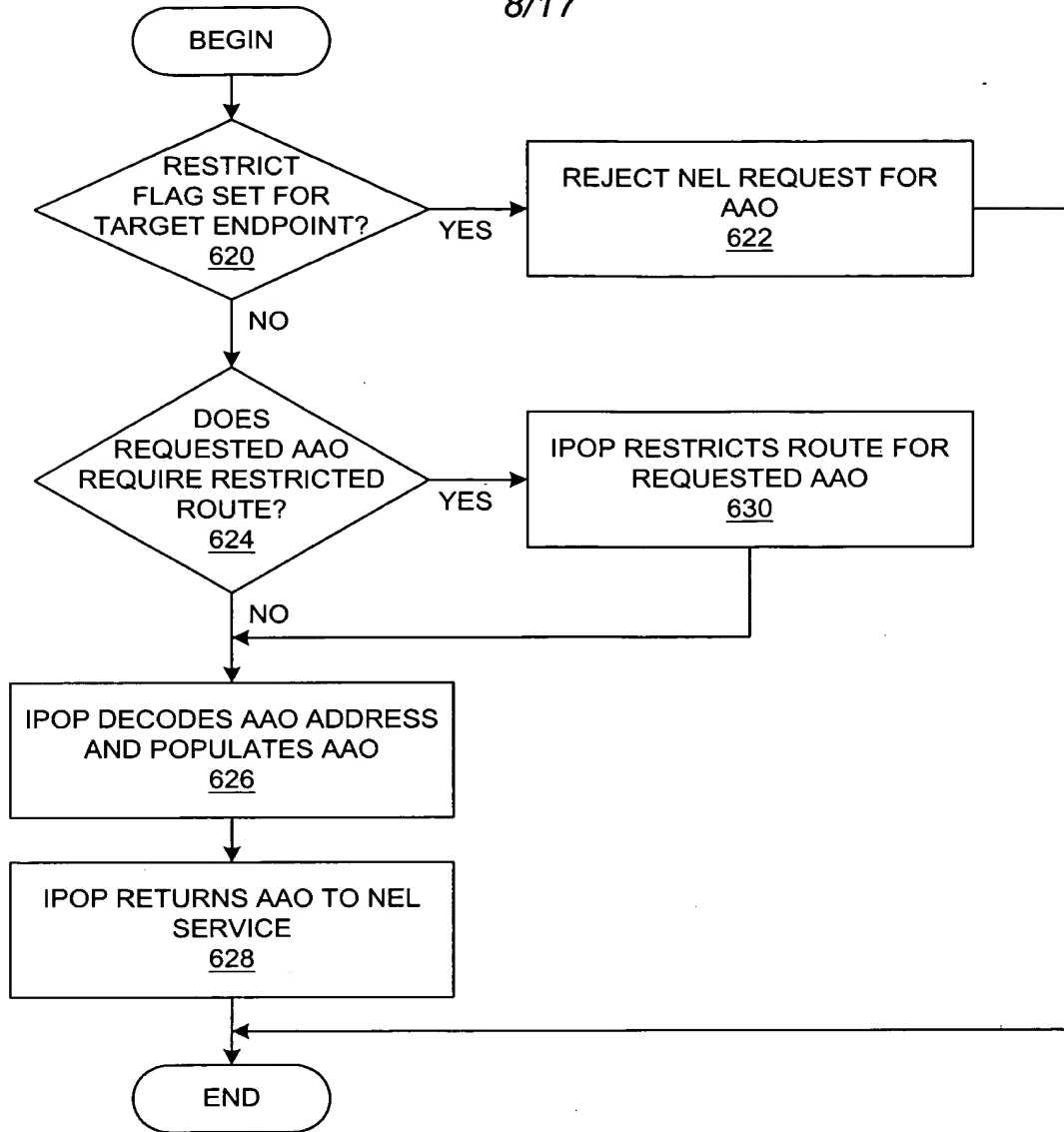


FIG. 6B

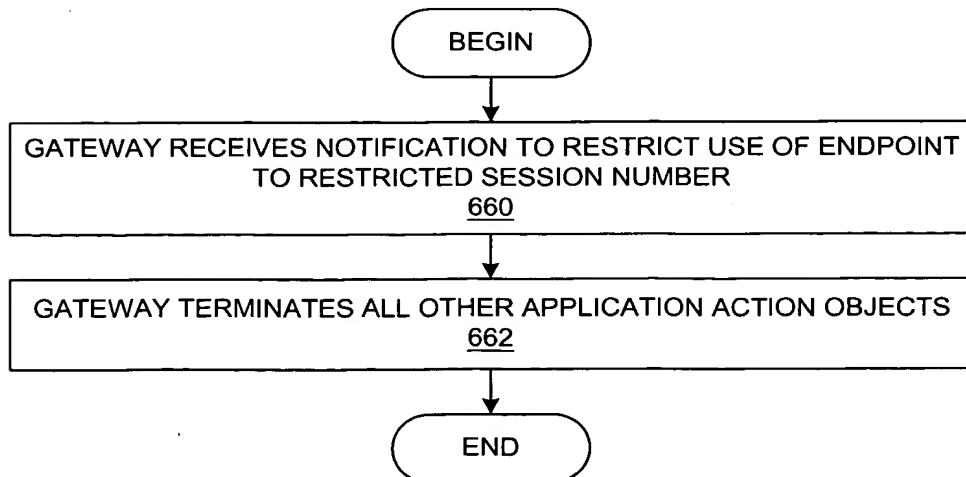


FIG. 6D



9/17

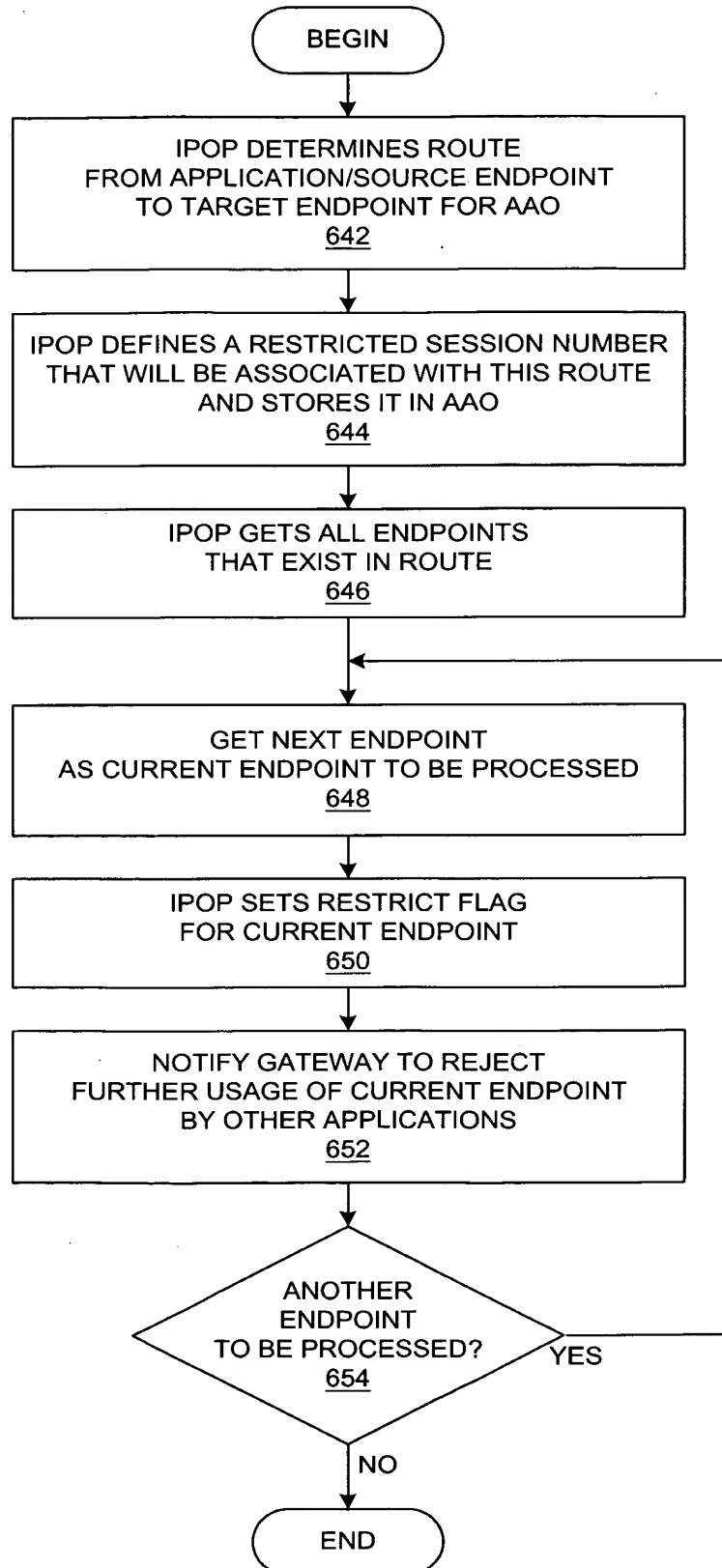


FIG. 6C

10/17

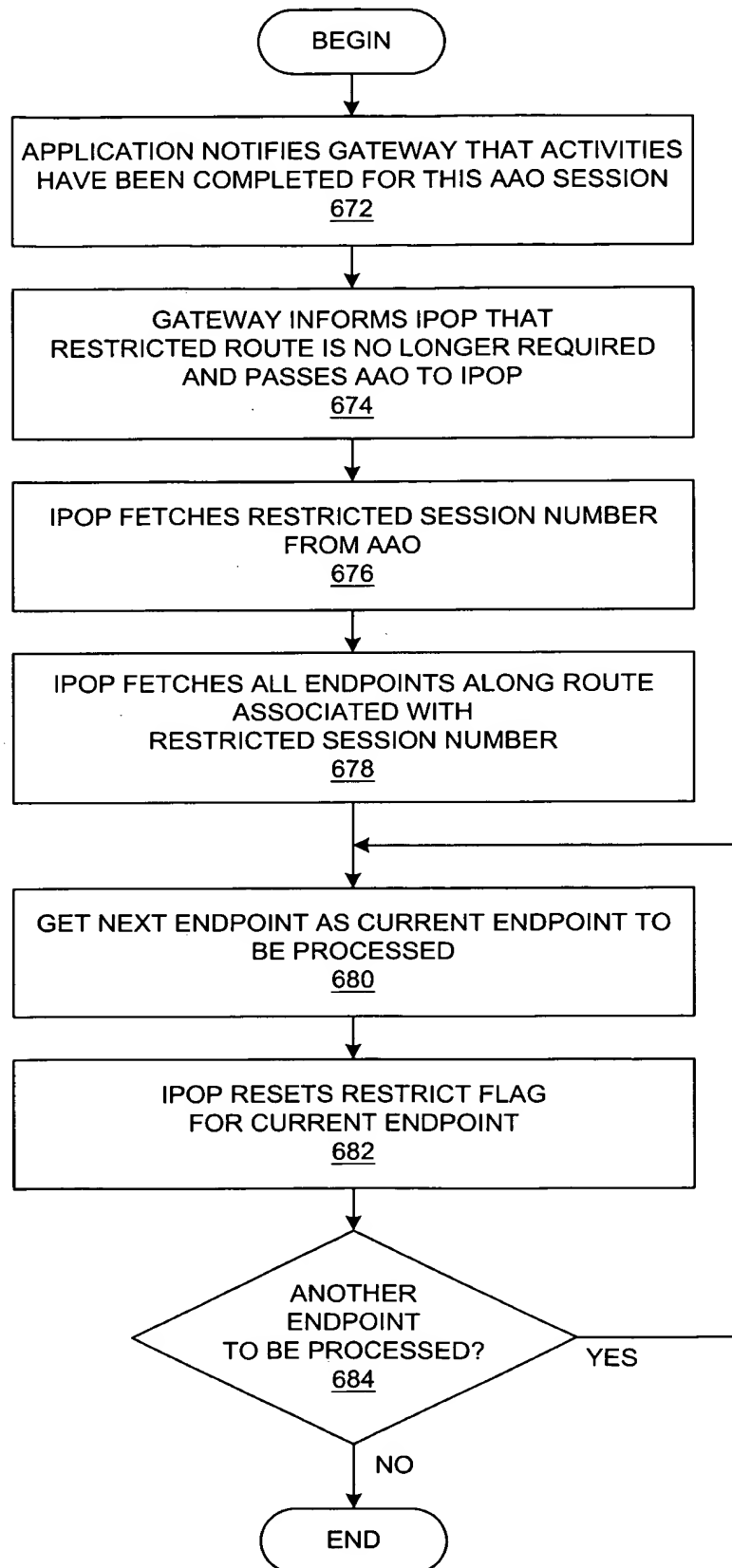


FIG. 6E

11/17

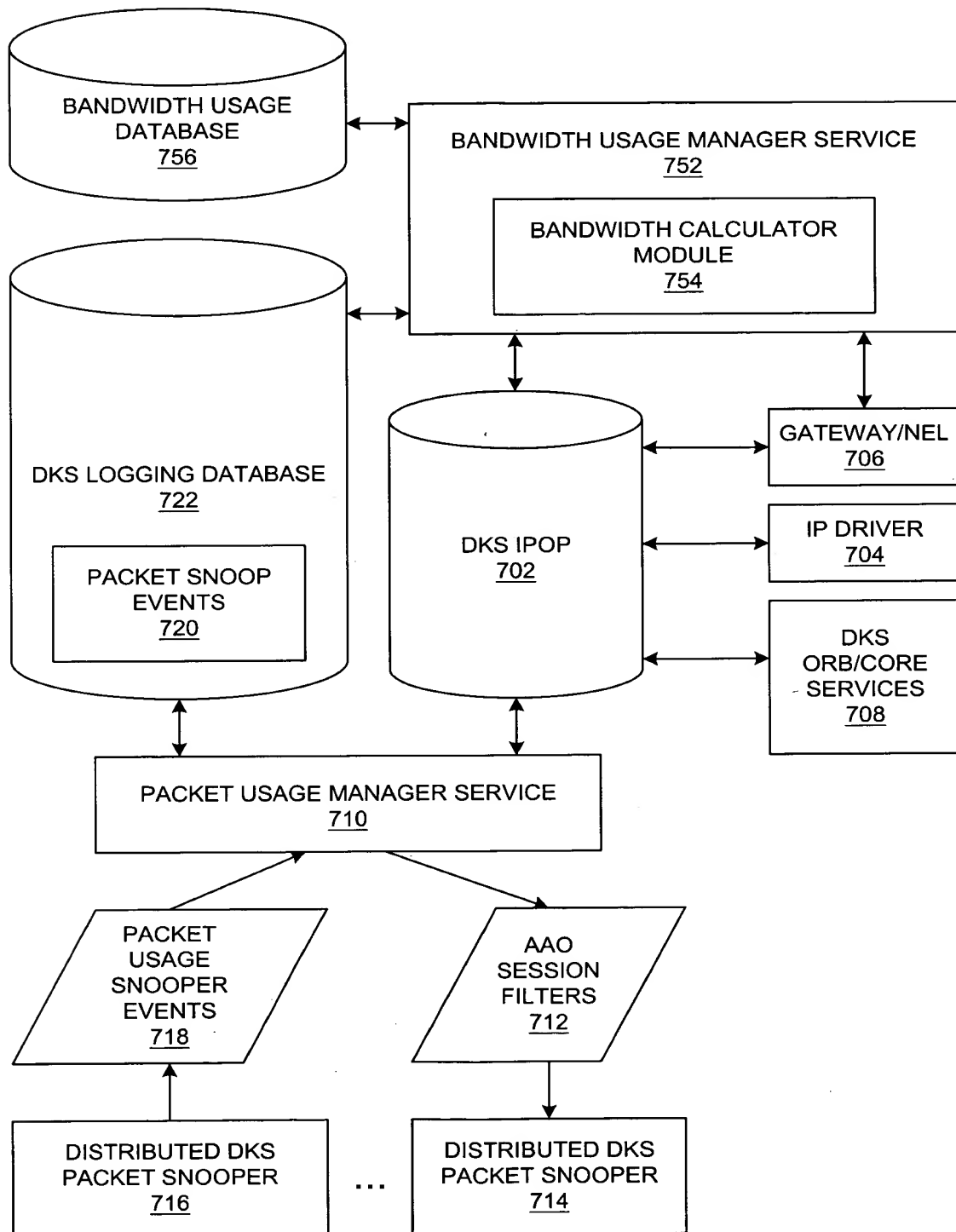


FIG. 7A

12/17

Class DKSSnooperEvent {

```
    AAO      Session;           // User, Application, Endpoint Route Information
    Vector    packetSizes;
    Int       TypeOfSnoopSession // Packet Type = 1;
                                     // Small Packet Sizes Only = 2;
                                     // All Packets = 3
```

}

Class AAOSession {

```
    long      AAOSessionID;
    PacketFilter p;
```

}

Class PacketFilter {

```
    Endpoint Route;
    int          SizeMinThreshold;
    int          SizeMaxThreshold;
    PacketType   PacketTypeArray; // type(s) of network protocol packets
```

}

Public Class Endpoint {

```
    //public variables
    long      EPObjectID; // ID to object (both private & public network addresses)
    InetAddress EPIPAddress; // physical network address (private or public)
    long      EPVPN;       // virtual private network ID

    //get/set of variables
    public long      getObjectID( ) { ... }
    public InetAddress getIPAddress( ) { ... }
    public long      getVPN( ) { ... }
```

...

*FIG. 7B*

13/17

Network Management Application--  
Packet Usage -- Application View

APPLICATION LIST 802

SET... 804 EXIT 806

PACKET  
USAGE ~ 808  
STATUS

OK APPLICATION 1 810  
==> APPLICATION 2 810

PAUSE 812 RESTART 814 STOP 816

PAUSE RESTART STOP

800

FIG. 8A

Network Management Application--  
Packet Usage -- User View

USER LIST 852

SET... 854 EXIT 856

PACKET  
SIZE ~ 858  
STATUS

ACTION  
ON ALL  
APPS

OK USER 1 860  
==> USER 2 860

868

PAUSE 862 RESTART 864 STOP 866

PAUSE RESTART STOP

850

FIG. 8B

14/17

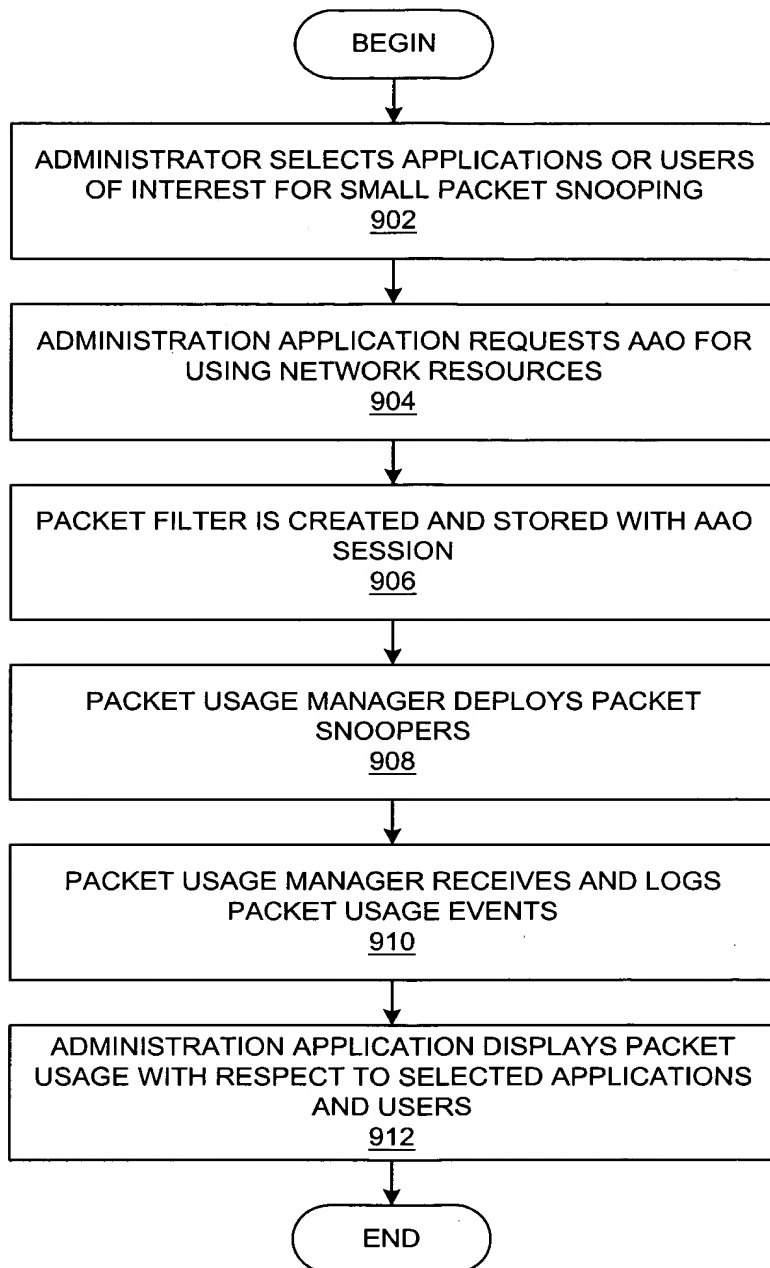


FIG. 9A

15/17

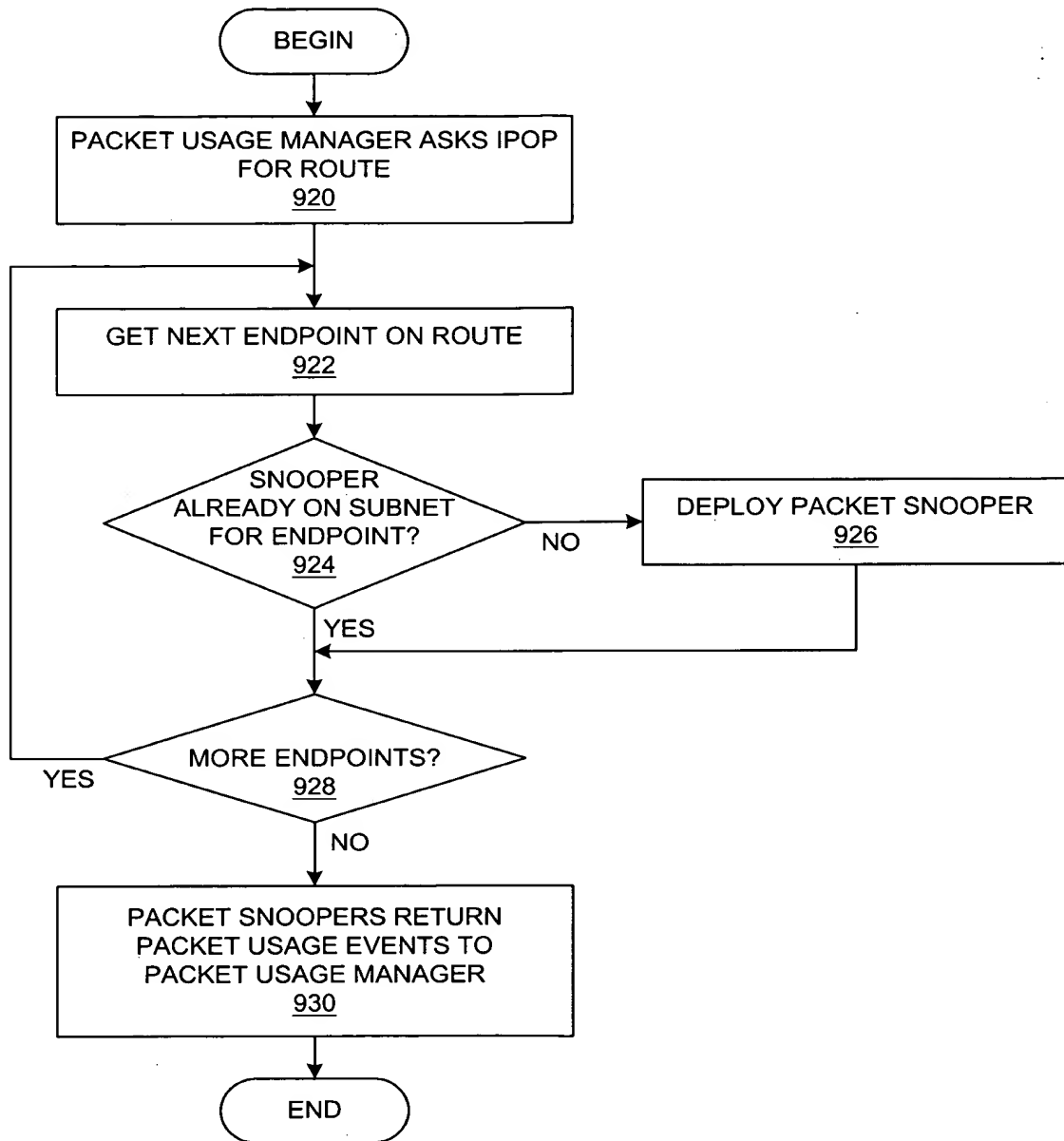


FIG. 9B

```

Class BandwidthApplicationActionObject extends ApplicationActionObject {

    BandwidthUsage predictedBWUsage; // Predicted bandwidth usage based on
                                     // selected category
    BandwidthUsage actualBWUsage;    // Actual bandwidth usage
    User u;

}
    
```

FIG. 10

16/17

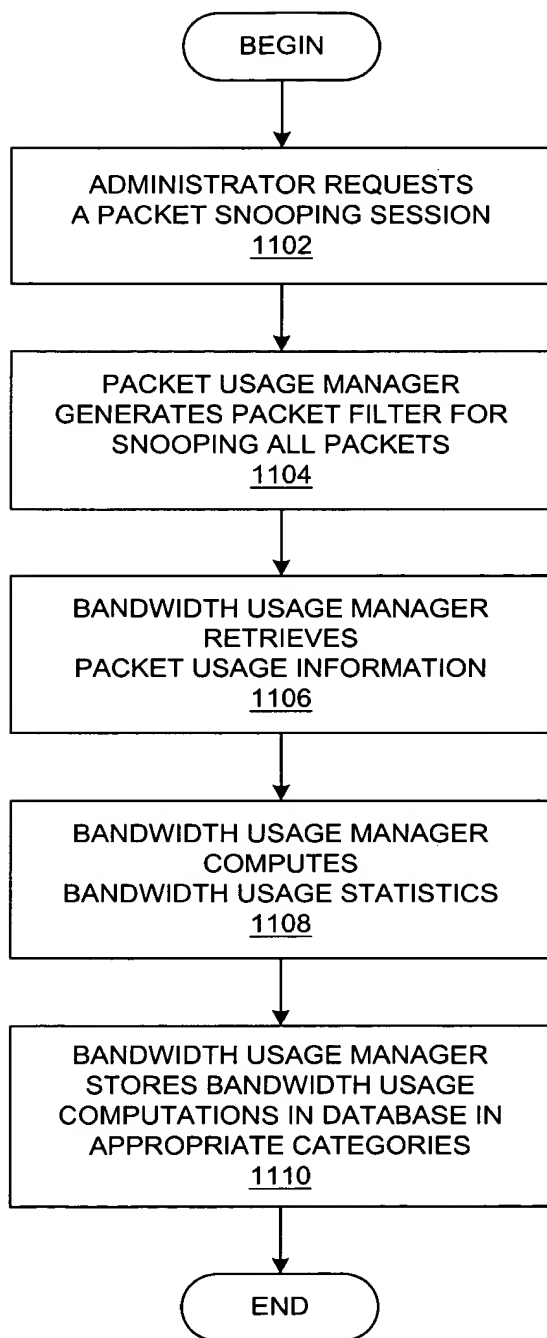


FIG. 11A

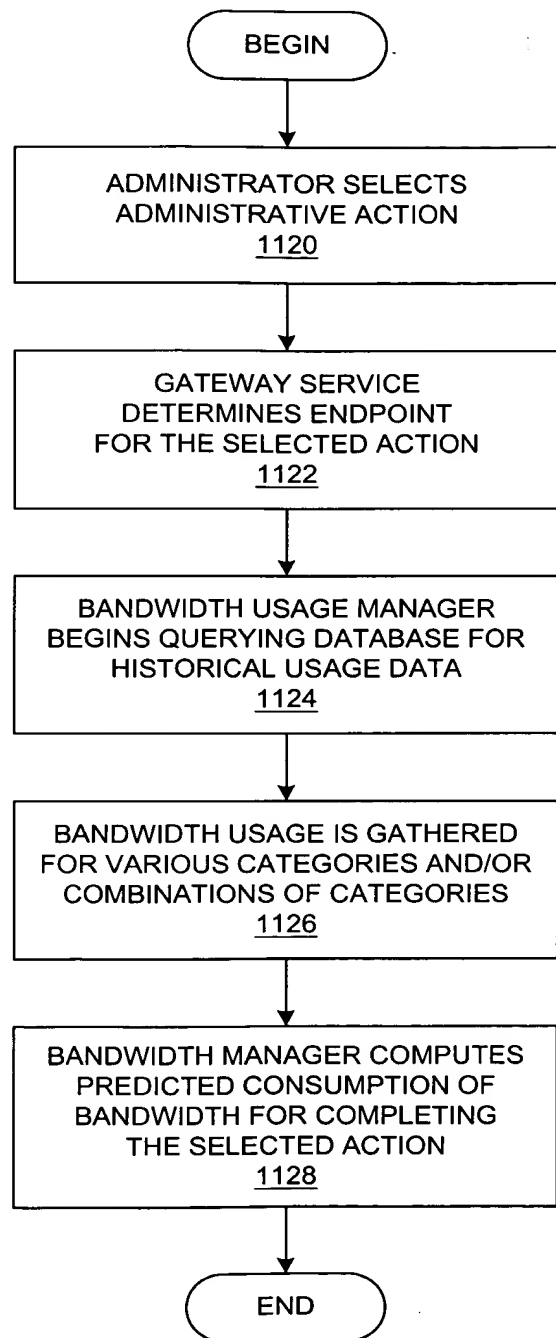


FIG. 11B



17/17

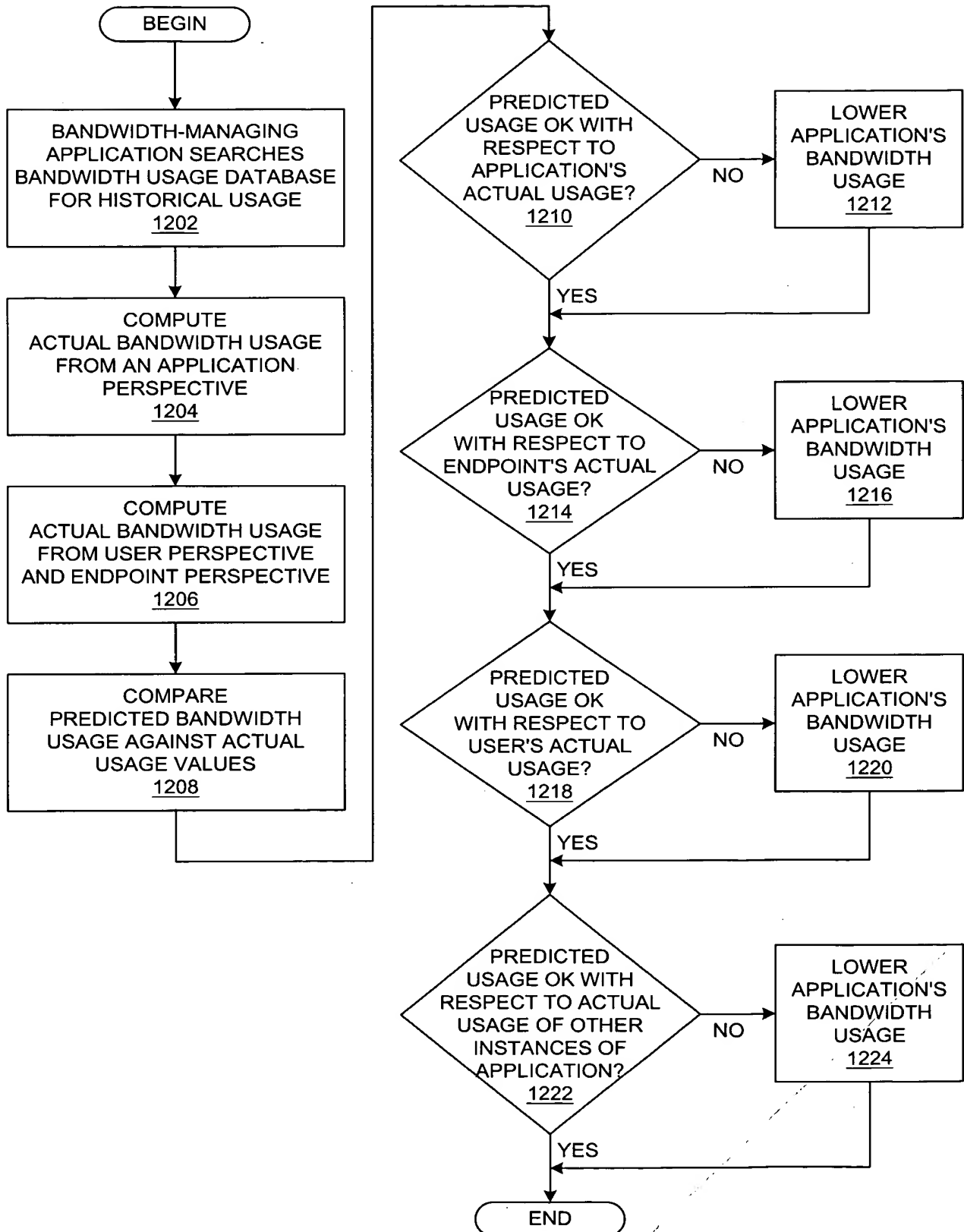


FIG. 12